#### PATENT COOPERATION TREATY

## **PCT**

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416							
P4048PC00								
International application No.	International filing date (day/m	onth/year) Prio	rity date (day/month/year)					
PCT/SE 2004/000907	11-06-2004		-06-2003					
nternational Patent Classification (IPC) or national classification and IPC								
A61B 5/00								
Applicant								
Atos Medical AB et al								
This report is the international pre Authority under Article 35 and tr			rnational Preliminary Examining					
2. This REPORT consists of a total	of 6 sheets, inclu	ding this cover shee	·					
This report is also accompanied b	y ANNEXES, comprising:							
<u> </u>								
· · · · · · · · · · · · · · · · · · ·	and to the International Bureau		sheets, as follows:					
and/or sheets			amended and are the basis of this report y (see Rule 70.16 and Section 607 of the					
		ich this Authority co	nsiders contain an amendment that goes					
beyond the d	isclosure in the international app		ndicated in item 4 of Box No. I and the					
Supplementa	I BOX.							
b (sent to the Internation	onal Bureau only) a total of (indi	· =						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the								
Administrative Instru		ung to sequence La	sting (see Section 802 of the					
4. This report contains indications re	elating to the following items:							
	f the report							
Box No. II Priority	,							
Box No. III Non-es	tablishment of opinion with rega	ard to novelty, inven	ive step and industrial applicability					
Box No. IV Lack o	f unity of invention							
Box No. V Reason	<u></u>							
applica	bility; citations and explanations documents cited							
Box No. VII Certain	defects in the international appl	ication						
Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date	of completion of thi	s report					
13-12-2004	14-	14-07-2005						
Name and mailing address of the IPEA/S		Authorized officer						
Patent- och registreringsverket	· · · · · · · · · · · · · · · · · · ·							
Box 5055 S-102 42 STOCKHOLM	Ant	na Malmberg	ı/MN					
Facsimile No. +46 8 667 72 88		Telephone No. +46 8 782 25 00						

International application No.

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Вох	No. I	Basis of the report
1.	With r	regard to the language, this report is based on:
		the international application in the language in which it was filed
		a translation of the international application into which is the language of a translation furnished for the purposes of:
		international search (Rules 12.3(a) and 23.1(b))
		publication of the international application (Rule 12.4(a))
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))
2.	furnis	regard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" re not annexed to this report):
	$\boxtimes$	the international application as originally filed/furnished
		the description:
		pages as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
		the claims:
		pages as originally filed/furnished
		pages* as amended (together with any statement) under Article 19
		pages* received by this Authority on
		pages* received by this Authority on
		the drawings:
		pages as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
	Ш	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
	If ite	rm 4 applies, some or all of those sheets may be marked "superseded."

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Bo	x No.	П	Priority	,											
1.		This limi	report has	s been e	stablish	ed as if n	o priority	had bee	n claim	ed due to th	ne failu	re to fur	nish within	n the pres	scribed time
			copy of	the earli	er appli	cation w	hose prio	rity has b	een cla	imed (Rule	66.7(	a)).			
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).  translation of the earlier application whose priority has been claimed (Rule 66.7(b)).														
2.	2. This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.														
3.	Addi	tiona	l observati	ons, if r	ecessar	y:									
	the	B		f ab	stra	cts				Therei ferenc					from '03"

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Box No.	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The ques applicabl	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially e have not been examined in respect of:
	the entire international application
$\boxtimes$	claims Nos. 15-16
becau	se:
	the said international application, or the said claims Nos.  relate to the following subject matter which does not require an international preliminary examination (specify):
	·
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify ):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify ):
$\boxtimes$	no international search report has been established for said claims Nos. 15-16
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and
	manner acceptable to it.  furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement							
Novel	ty (N)	Claims Claims	_2-5,7-14 _1.6	YES NO			
Invent	tive step (IS)	Claims Claims	2-3.9.11 1.4-8.10.12-14	YES NO			
Indust	rial applicability (IA)	Claims Claims	1-14	YES NO			

2. Citations and explanations (Rule 70.7)

Prior art

Reference is made to the following documents:

D1:US 5673692 A D2:US 5115133 A

Document D1 discloses a device for measurement of physical parameters of the tympanic membrane, which device discloses fibre optics for directing diagnostic light from several sources with different wavelengths to the tympanic membrane and returning the reflected light to different detectors for intensity measuring. The device is controlled and checked by the processors. (See for example column 3, line 6 - column 4, line 60 and figures 1-12.)

Document D2 discloses a device for measurement of physical parameters of the tympanic membrane, which device discloses fibre optics for directing diagnostic light from a light generator, which generator delivers light of different wavelengths to the tympanic membrane, and returns (i.e. brings back) reflected light to detectors for intensity measurement. The device is controlled and checked by the processors. (See for example column 3, line 30 - column 6, line 11 and figure 1.)

Statement of reason

The invention describes a device for detecting acute otitis media, which device exposes the tympanic membrane to radiation

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

and detects the reflected intensity via fibre optics. The device utilizes the fact that inflamed tissue reflects light differently than healthy tissue. Separate detectors are used to measure the reflected intensity of different wavelengths.

According to what is mentioned in D1, the invention according to claim 1 lacks novelty.

Also, according to what is mentioned in D2, the invention according to claim 1 lacks novelty.

According to what is mentioned in D1 and D2 respectively, the invention according to claim 6 lacks novelty.

The claims 4-5, 7-8, 10 and 12-14 refer to the claims 1 and 6. What is mentioned in claims 4-5, 7-8, 10 and 12-14 is regarded as constructional details, where the person skilled in the art chooses an optimal sensitivity for the detector elements as well as an appropriate configuration of the fibre optics suitable for the specific application. These details do not seem to solve any specific problem.

Therefore, the invention according to claims 4-5, 7-8, 10 and 12-14 is novel but is regarded to lack an inventive step.

Consequently, the invention according to claims 2-3, 9 and 11 is novel. The invention according to claims 1 and 6 lacks novelty. The invention according to claims 4-5, 7-8, 10 and 12-14 is novel but lacks an inventive step. The invention according to claims 1-14 is industrially applicable.